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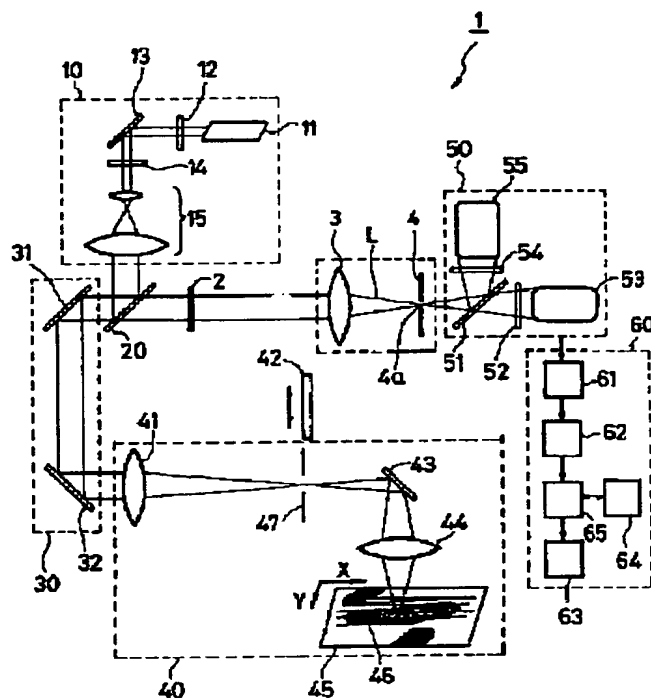
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TITLE : CONFOCAL LASER SCANNING MICROSCOPE



ABSTRACT : **PROBLEM TO BE SOLVED:** To realize the equal adjustment of the positions of the optical axis of a condensing lens and a pinhole to those at the time of irradiating a sample surface and to eliminate the damage of a sample by arranging a fluorescent glass being as a standard fluorescent sample on a primary image surface conjugated with the focal plane of an objective lens so that it is freely inserted and pulled out.

SOLUTION: A relay optical system 40 is constituted of the condensing lens 41, the fluorescent glass 42, a total reflection mirror 43 and the objective lens 44. The glass 42 is arranged on the primary image surface 47 conjugated with the focal plane of the lens 44 (the optional slice surface of the sample 46 placed on a stage 45) as the standard fluorescent sample so that it is freely inserted and pulled out. Besides, the screen of a monitor 63 is set to be a zoom screen display or a still picture display, for example. Then, the position of the optical axis of the lens 3 or a pinhole plate 4 is adjusted so that a luminance value at the center of the screen (scanning center) or near the center becomes the maximum. Then, the optical axis of fluorescence and the center of the pin hole are aligned with each other.

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